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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,788	10/10/2006	Paul Johannes Marie Julicher	NL 040379	4597

24737 7590 03/30/2009  
PHILIPS INTELLECTUAL PROPERTY & STANDARDS  
P.O. BOX 3001  
BRIARCLIFF MANOR, NY 10510

EXAMINER
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STERRETT, JEFFREY L

ART UNIT	PAPER NUMBER
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2838

MAIL DATE	DELIVERY MODE
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03/30/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/599,788	<b>Applicant(s)</b> JULICHER ET AL.	
	<b>Examiner</b> Jeffrey L. Sterrett	<b>Art Unit</b> 2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 October 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 October 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

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1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
2. The drawings are objected to because box 30 in figure 4 is not labeled or shown as to its use or purpose. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 5, and 6 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Leman (US 5,008,794) in combination with Yoshida et al (US 7,400,519).

Leman discloses a flyback converter (10) comprising a primary side input circuit (11 and 16) having a primary winding (11) wound on a transformer (14) and a primary switch element (16) in series with the primary winding, a first output circuit (12, L1, D1, and C2) having a first secondary winding (12) wound on the transformer and connected in series with a rectifying element (D1), and a second output circuit (13, L2, D2, and C3) having a second secondary winding (13) wound on the transformer and connected in series with a rectifying element (D2) wherein said first output circuit comprises means (L1) for increasing the inductance in the first output circuit as recited by claims 1, 5, and 6 except for utilizing a secondary switch element in the first output circuit. Yoshida et al discloses as old and known in the art at the time of the invention a flyback converter comprising an output circuit having a secondary winding (900b) wound on the transformer (900) and connected in series with a rectifying element (501) and a secondary switch a secondary switch element (502). It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the flyback converter of Leman by utilizing a secondary switch element in the first output circuit as taught by Yoshida et al in order to provide better control of the first output voltage.

6. Claims 2-4 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Leman in combination with Yoshida et al as applied to claim 1 above, and further in combination with Yasumura (US 6,452,817).

Leman and Yoshida et al collectively disclose a flyback converter as recited by claims 2-4 except for utilizing a gap in the transformer core between the primary and

secondary windings to increase the leakage inductance. Yasumura discloses as old and known in the art at the time of the invention a flyback converter utilizing a gap (G) in the transformer core (CR1) between the primary winding (N1) and the secondary winding (N2) to increase the leakage inductance. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the flyback converter collectively taught by Leman and Yoshida et al by utilizing a gap in the transformer core between the primary and secondary windings in order to increase the leakage inductance as taught by Yasumura.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spataro (US 4,964,028), Shimamura (US 5,995,35), Cross (US 6,069,803), Uchida (US 6,272,024), Morita et al (US 6,700,801), Takada (US 2004/0190312), Yasumura (US 7,167,384), Hachiya (US 2007/0047269), Jang et al (US 7,218,081), Kim et al (US 2008/0266910), and Cuadra et al (US 2008/0298094) are cited to show flyback converters old and known in the art at the time of the invention.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 7:30am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm E. Ullah can be reached on (571) 272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeffrey L. Sterrett/  
Primary Examiner, Art Unit 2838